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0300/0540 Page 1 of 7
#5
Don
3-21-02
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,011

DATE: 01/26/2002

TIME: 16:21:47

Input Set : A:\ES.txt

Output Set: N:\CRF3\01262002\I922011.raw

ENTERED

for

3 <110> APPLICANT: CIS Biotech, Inc.
4 Dambinova, Svetlana
6 <120> TITLE OF INVENTION: Rapid multiple panel of biomarkers in laboratory blood tests
7 TIA/stroke
9 <130> FILE REFERENCE: 08805.105001
11 <140> CURRENT APPLICATION NUMBER: US 09/922,011
12 <141> CURRENT FILING DATE: 2001-08-02
14 <160> NUMBER OF SEQ ID NOS: 17
16 <170> SOFTWARE: PatentIn version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 1464
20 <212> TYPE: PRT
21 <213> ORGANISM: homo sapiens
23 <400> SEQUENCE: 1
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26 1 5 10 15
29 Val Trp Arg Asp Pro Ala Gln Asn Ala Ala Ala Glu Lys Gly Pro Pro
30 20 25 30
33 Ala Leu Asn Ile Ala Val Leu Leu Gly His Ser His Asp Val Thr Glu
34 35 40 45
37 Arg Glu Leu Arg Asn Leu Trp Gly Pro Glu Gln Ala Thr Gly Leu Pro
38 50 55 60
41 Leu Asp Val Asn Val Val Ala Leu Leu Met Asn Arg Thr Asp Pro Lys
42 65 70 75 80
45 Ser Leu Ile Thr His Val Cys Asp Leu Met Ser Gly Ala Arg Ile His
46 85 90 95
49 Gly Leu Val Phe Gly Asp Asp Thr Asp Gln Glu Ala Val Ala Gln Met
50 100 105 110
53 Leu Asp Phe Ile Ser Ser Gln Thr Phe Ile Pro Ile Leu Gly Ile His
54 115 120 125
57 Gly Gly Ala Ser Met Ile Met Ala Asp Lys Asp Pro Thr Ser Thr Phe
58 130 135 140
61 Phe Gln Phe Gly Ala Ser Ile Gln Gln Gln Ala Thr Val Met Leu Lys
62 145 150 155 160
65 Ile Met Gln Asp Tyr Asp Trp His Val Phe Ser Leu Val Thr Thr Ile
66 165 170 175
69 Phe Pro Gly Tyr Arg Asp Phe Ile Ser Phe Ile Lys Thr Thr Val Asp
70 180 185 190
73 Asn Ser Phe Val Gly Trp Asp Met Gln Asn Val Ile Thr Leu Asp Thr
74 195 200 205
77 Ser Phe Glu Asp Ala Lys Thr Gln Val Gln Leu Lys Lys Ile His Ser
78 210 215 220
81 Ser Val Ile Leu Leu Tyr Cys Ser Lys Asp Glu Ala Val Leu Ile Leu

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82 225          230          235          240
85 Ser Glu Ala Arg Ser Leu Gly Leu Thr Gly Tyr Asp Phe Phe Trp Ile
86          245          250          255
89 Val Pro Ser Leu Val Ser Gly Asn Thr Glu Leu Ile Pro Lys Glu Phe
90          260          265          270
93 Pro Ser Gly Leu Ile Ser Val Ser Tyr Asp Asp Trp Asp Tyr Ser Leu
94          275          280          285
97 Glu Ala Arg Val Arg Asp Gly Leu Gly Ile Leu Thr Thr Ala Ala Ser
98          290          295          300
101 Ser Met Leu Glu Lys Phe Ser Tyr Ile Pro Glu Ala Lys Ala Ser Cys
102 305          310          315          320
105 Tyr Gly Gln Ala Glu Lys Pro Glu Thr Pro Leu His Thr Leu His Gln
106          325          330          335
109 Phe Met Val Asn Val Thr Trp Asp Gly Lys Asp Leu Ser Phe Thr Glu
110          340          345          350
113 Glu Gly Tyr Gln Val His Pro Arg Leu Val Val Ile Val Leu Asn Lys
114          355          360          365
117 Asp Arg Glu Trp Glu Lys Val Gly Lys Trp Glu Asn Gln Thr Leu Ser
118          370          375          380
121 Leu Arg His Ala Val Trp Pro Arg Tyr Lys Ser Phe Ser Asp Cys Glu
122 385          390          395          400
125 Pro Asp Asp Asn His Leu Ser Ile Val Thr Leu Glu Glu Ala Pro Phe
126          405          410          415
129 Val Ile Val Glu Asp Ile Asp Pro Leu Thr Glu Thr Cys Val Arg Asn
130          420          425          430
133 Thr Val Pro Cys Arg Lys Phe Val Lys Ile Asn Asn Ser Thr Asn Glu
134          435          440          445
137 Gly Met Asn Val Lys Lys Cys Cys Lys Gly Phe Cys Ile Asp Ile Leu
138          450          455          460
141 Lys Lys Leu Ser Arg Thr Val Lys Phe Thr Tyr Asp Leu Tyr Leu Val
142 465          470          475          480
145 Thr Asn Gly Lys His Gly Lys Lys Val Asn Asn Val Trp Asn Gly Met
146          485          490          495
149 Ile Gly Glu Val Val Tyr Gln Arg Ala Val Met Ala Val Gly Ser Leu
150          500          505          510
153 Thr Ile Asn Glu Glu Arg Ser Glu Val Val Asp Phe Ser Val Pro Phe
154          515          520          525
157 Val Glu Thr Gly Ile Ser Val Met Val Ser Arg Ser Asn Gly Thr Val
158          530          535          540
161 Ser Pro Ser Ala Phe Leu Glu Pro Phe Ser Ala Ser Val Trp Val Met
162 545          550          555          560
165 Met Phe Val Met Leu Leu Ile Val Ser Ala Ile Ala Val Phe Val Phe
166          565          570          575
169 Glu Tyr Phe Ser Pro Val Gly Tyr Asn Arg Asn Leu Ala Lys Gly Lys
170          580          585          590
173 Ala Pro His Gly Pro Ser Phe Thr Ile Gly Lys Ala Ile Trp Leu Leu
174          595          600          605
177 Trp Gly Leu Val Phe Asn Asn Ser Val Pro Val Gln Asn Pro Lys Gly
178          610          615          620

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181 Thr Thr Ser Lys Ile Met Val Ser Val Trp Ala Phe Phe Ala Val Ile
182 625                               630                               635                               640
185 Phe Leu Ala Ser Tyr Thr Ala Asn Leu Ala Ala Phe Met Ile Gln Glu
186                               645                               650                               655
189 Glu Phe Val Asp Gln Val Thr Gly Leu Ser Asp Lys Lys Phe Gln Arg
190                               660                               665                               670
193 Pro His Asp Tyr Ser Pro Pro Phe Arg Phe Gly Thr Val Pro Asn Gly
194                               675                               680                               685
197 Ser Thr Glu Arg Asn Ile Arg Asn Asn Tyr Pro Tyr Met His Gln Tyr
198                               690                               695                               700
201 Met Thr Arg Phe Asn Gln Arg Gly Val Glu Asp Ala Leu Val Ser Leu
202 705                               710                               715                               720
205 Lys Thr Gly Lys Leu Asp Ala Phe Ile Tyr Asp Ala Ala Val Leu Asn
206                               725                               730                               735
209 Tyr Lys Ala Gly Arg Asp Glu Gly Cys Lys Leu Val Thr Ile Gly Ser
210                               740                               745                               750
213 Gly Tyr Ile Phe Ala Ser Thr Gly Tyr Gly Ile Ala Leu Gln Lys Gly
214                               755                               760                               765
217 Ser Pro Trp Lys Arg Gln Ile Asp Leu Ala Leu Leu Gln Phe Val Gly
218                               770                               775                               780
221 Asp Gly Glu Met Glu Glu Leu Glu Thr Leu Trp Leu Thr Gly Ile Cys
222 785                               790                               795                               800
225 His Asn Glu Lys Asn Glu Val Met Ser Ser Gln Leu Asp Ile Asp Asn
226                               805                               810                               815
229 Met Ala Gly Val Phe Tyr Met Leu Ala Ala Ala Met Ala Leu Ser Leu
230                               820                               825                               830
233 Ile Thr Phe Ile Trp Glu His Leu Phe Tyr Trp Lys Leu Arg Phe Cys
234                               835                               840                               845
237 Phe Thr Gly Val Cys Ser Asp Arg Pro Gly Leu Leu Phe Ser Ile Ser
238                               850                               855                               860
241 Arg Gly Ile Tyr Ser Cys Ile His Gly Val His Ile Glu Glu Lys Lys
242 865                               870                               875                               880
245 Lys Ser Pro Asp Phe Asn Leu Thr Gly Ser Gln Ser Asn Met Leu Lys
246                               885                               890                               895
249 Leu Leu Arg Ser Ala Lys Asn Ile Ser Asn Met Ser Asn Met Asn Ser
250                               900                               905                               910
253 Ser Arg Met Asp Ser Pro Lys Arg Ala Thr Asp Phe Ile Gln Arg Gly
254                               915                               920                               925
257 Ser Leu Ile Val Asp Met Val Ser Asp Lys Gly Asn Leu Ile Tyr Ser
258                               930                               935                               940
261 Asp Asn Arg Ser Phe Gln Gly Lys Asp Ser Ile Phe Gly Asp Asn Met
262 945                               950                               955                               960
265 Asn Glu Leu Gln Thr Phe Val Ala Asn Arg His Lys Asp Asn Leu Ser
266                               965                               970                               975
269 Asn Tyr Val Phe Gln Gly Gln His Pro Leu Thr Leu Asn Glu Ser Asn
270                               980                               985                               990
273 Pro Asn Thr Val Glu Val Ala Val Ser Thr Glu Ser Lys Gly Asn Ser
274                               995                               1000                               1005
277 Arg Pro Arg Gln Leu Trp Lys Lys Ser Met Glu Ser Leu Arg Gln

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| | | | | | |
|-----|---------|---------------------|---------------------|-------------|------|
| 278 | 1010 | | 1015 | | 1020 |
| 281 | Asp Ser | Leu Asn Gln Asn Pro | Val Ser Gln Arg Asp | Glu Lys Thr | |
| 282 | 1025 | | 1030 | | 1035 |
| 285 | Ala Glu | Asn Arg Thr His Ser | Leu Lys Ser Pro Arg | Tyr Leu Pro | |
| 286 | 1040 | | 1045 | | 1050 |
| 289 | Glu Glu | Val Ala His Ser Asp | Ile Ser Glu Thr Ser | Ser Arg Ala | |
| 290 | 1055 | | 1060 | | 1065 |
| 293 | Thr Cys | His Arg Glu Pro Asp | Asn Asn Lys Asn His | Lys Thr Lys | |
| 294 | 1070 | | 1075 | | 1080 |
| 297 | Asp Asn | Phe Lys Arg Ser Met | Ala Ser Lys Tyr Pro | Lys Asp Cys | |
| 298 | 1085 | | 1090 | | 1095 |
| 301 | Ser Asp | Val Asp Arg Thr Tyr | Met Lys Thr Lys Ala | Ser Ser Pro | |
| 302 | 1100 | | 1105 | | 1110 |
| 305 | Arg Asp | Lys Ile Tyr Thr Ile | Asp Gly Glu Lys Glu | Pro Ser Phe | |
| 306 | 1115 | | 1120 | | 1125 |
| 309 | His Leu | Asp Pro Pro Gln Phe | Val Glu Asn Ile Thr | Leu Pro Glu | |
| 310 | 1130 | | 1135 | | 1140 |
| 313 | Asn Val | Gly Phe Pro Asp Thr | Tyr Gln Asp His Asn | Glu Asn Phe | |
| 314 | 1145 | | 1150 | | 1155 |
| 317 | Arg Lys | Gly Asp Ser Thr Leu | Pro Met Asn Arg Asn | Pro Leu His | |
| 318 | 1160 | | 1165 | | 1170 |
| 321 | Asn Glu | Asp Gly Leu Pro Asn | Asn Asp Gln Tyr Lys | Leu Tyr Ala | |
| 322 | 1175 | | 1180 | | 1185 |
| 325 | Lys His | Phe Thr Leu Lys Asp | Lys Gly Ser Pro His | Ser Glu Gly | |
| 326 | 1190 | | 1195 | | 1200 |
| 329 | Ser Asp | Arg Tyr Arg Gln Asn | Ser Thr His Cys Arg | Ser Cys Leu | |
| 330 | 1205 | | 1210 | | 1215 |
| 333 | Ser Asn | Leu Pro Thr Tyr Ser | Gly His Phe Thr Met | Arg Ser Pro | |
| 334 | 1220 | | 1225 | | 1230 |
| 337 | Phe Lys | Cys Asp Ala Cys Leu | Arg Met Gly Asn Leu | Tyr Asp Ile | |
| 338 | 1235 | | 1240 | | 1245 |
| 341 | Asp Glu | Asp Gln Met Leu Gln | Glu Thr Gly Asn Pro | Ala Thr Arg | |
| 342 | 1250 | | 1255 | | 1260 |
| 345 | Glu Glu | Val Tyr Gln Gln Asp | Trp Ser Gln Asn Asn | Ala Leu Gln | |
| 346 | 1265 | | 1270 | | 1275 |
| 349 | Phe Gln | Lys Asn Lys Leu Arg | Ile Asn Arg Gln His | Ser Tyr Asp | |
| 350 | 1280 | | 1285 | | 1290 |
| 353 | Asn Ile | Leu Asp Lys Pro Arg | Glu Ile Asp Leu Ser | Arg Pro Ser | |
| 354 | 1295 | | 1300 | | 1305 |
| 357 | Arg Ser | Ile Ser Leu Lys Asp | Arg Glu Arg Leu Leu | Glu Gly Asn | |
| 358 | 1310 | | 1315 | | 1320 |
| 361 | Leu Tyr | Gly Ser Leu Phe Ser | Val Pro Ser Ser Lys | Leu Leu Gly | |
| 362 | 1325 | | 1330 | | 1335 |
| 365 | Asn Lys | Ser Ser Leu Phe Pro | Gln Gly Leu Glu Asp | Ser Lys Arg | |
| 366 | 1340 | | 1345 | | 1350 |
| 369 | Ser Lys | Ser Leu Leu Pro Asp | His Ala Ser Asp Asn | Pro Phe Leu | |
| 370 | 1355 | | 1360 | | 1365 |
| 373 | His Thr | Tyr Gly Asp Asp Gln | Arg Leu Val Ile Gly | Arg Cys Pro | |
| 374 | 1370 | | 1375 | | 1380 |

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377 Ser Asp Pro Tyr Lys His Ser Leu Pro Ser Gln Ala Val Asn Asp
378      1385      1390      1395
381 Ser Tyr Leu Arg Ser Ser Leu Arg Ser Thr Ala Ser Tyr Cys Ser
382      1400      1405      1410
385 Arg Asp Ser Arg Gly His Ser Asp Val Tyr Ile Ser Glu His Val
386      1415      1420      1425
389 Met Pro Tyr Ala Ala Asn Lys Asn Thr Met Tyr Ser Thr Pro Arg
390      1430      1435      1440
393 Val Leu Asn Ser Cys Ser Asn Arg Arg Val Tyr Lys Lys Met Pro
394      1445      1450      1455
397 Ser Ile Glu Ser Asp Val
398      1460
401 <210> SEQ ID NO: 2
402 <211> LENGTH: 536
403 <212> TYPE: PRT
404 <213> ORGANISM: homo sapiens
406 <400> SEQUENCE: 2
408 Pro Ala Gln Asn Ala Ala Ala Glu Lys Gly Pro Pro Ala Leu Asn Ile
409 1      5      10      15
412 Ala Val Leu Leu Gly His Ser His Asp Val Thr Glu Arg Glu Leu Arg
413      20      25      30
416 Asn Leu Trp Gly Pro Glu Gln Ala Thr Gly Leu Pro Leu Asp Val Asn
417      35      40      45
420 Val Val Ala Leu Leu Met Asn Arg Thr Asp Pro Lys Ser Leu Ile Thr
421      50      55      60
424 His Val Cys Asp Leu Met Ser Gly Ala Arg Ile His Gly Leu Val Phe
425 65      70      75      80
428 Gly Asp Asp Thr Asp Gln Glu Ala Val Ala Gln Met Leu Asp Phe Ile
429      85      90      95
432 Ser Ser Gln Thr Phe Ile Pro Ile Leu Gly Ile His Gly Gly Ala Ser
433      100     105     110
436 Met Ile Met Ala Asp Lys Asp Pro Thr Ser Thr Phe Phe Gln Phe Gly
437      115     120     125
440 Ala Ser Ile Gln Gln Gln Ala Thr Val Met Leu Lys Ile Met Gln Asp
441      130     135     140
444 Tyr Asp Trp His Val Phe Ser Leu Val Thr Thr Ile Phe Pro Gly Tyr
445 145     150     155     160
448 Arg Asp Phe Ile Ser Phe Ile Lys Thr Thr Val Asp Asn Ser Phe Val
449      165     170     175
452 Gly Trp Asp Met Gln Asn Val Ile Thr Leu Asp Thr Ser Phe Glu Asp
453      180     185     190
456 Ala Lys Thr Gln Val Gln Leu Lys Lys Ile His Ser Ser Val Ile Leu
457      195     200     205
460 Leu Tyr Cys Ser Lys Asp Glu Ala Val Leu Ile Leu Ser Glu Ala Arg
461      210     215     220
464 Ser Leu Gly Leu Thr Gly Tyr Asp Phe Phe Trp Ile Val Pro Ser Leu
465 225     230     235     240
468 Val Ser Gly Asn Thr Glu Leu Ile Pro Lys Glu Phe Pro Ser Gly Leu
469      245     250     255

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VERIFICATION SUMMARY

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